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The Armament Research Development & Engineering Center



Data-Driven Modeling of Human Behavior in Military Operations

J. Riedener & E. Mezzacappa

The TBRL Mission

We test PEOPLE!

We are looking for TACTICALLY RELEVANT results

We always endeavor to use what the Soldier wants as the primary metric

TBRL Capabilities

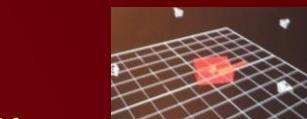
1. Indoor and outdoor testbeds configured and maintained for experimentation
2. Equipment, both hardware and software, required for operation, data collection and analysis
3. Safety and environmental procedures with approvals required to permit experimentation
4. ARDEC Institutional Review Board
5. Trained staff to Develop, Conduct and Report on Human Research
 - Credentialed research scientists serving as Principal Investigators
 - Mechanical, electrical and biomedical engineers
 - Human Research Technicians

Create models of human behavior in response to non-lethal weapons & Validate the models developed for simulations of human behavior

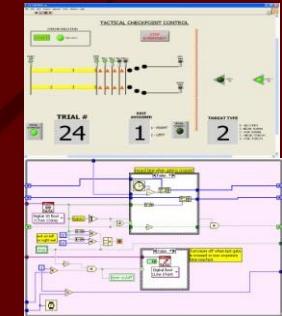
Innovative Armaments Solutions for Today and Tomorrow



Army's Target Behavioral Response Laboratory



TBRL



"Lab to laptop" experimental data-based M&S of human behavior